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NOTICE OF ALLOWANCE AND FEE(S) DUE

3624

7590

02/09/2009

VOLPE AND KOENIG, P.C. UNITED PLAZA, SUITE 1600 30 SOUTH 17TH STREET PHILADELPHIA, PA 19103 EXAMINER

WHITTINGTON, KENNETH

ART UNIT PAPER NUMBER

2862

DATE MAILED: 02/09/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,998	01/09/2006	Jens Schafer	INA-PT163 (4223-18-US)	7047

TITLE OF INVENTION: DEVICE AND METHOD FOR DETERMINING THE ANGLE OF ROTATION BETWEEN A CAMSHAFT AND A CRANKSHAFT IN AN INTERNAL COMBUSTION ENGINE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/11/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance onerwise in Block 1, by (orders and notification of a) specifying a new con	of maintenance for respondence add	es will be ress; and/o	mailed to the current or (b) indicating a sep	t correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
3624	7590 02/09	/2009	II.	ave its own certif			······································
VOLPE AND UNITED PLAZ 30 SOUTH 17T	I S a t	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Uni States Postal Service with sufficient postage for first class mail in an envelor addressed to the Mail Stop ISSUE FEE address above, or being facsing transmitted to the USPTO (571) 273-2885, on the date indicated below.					
PHILADELPHI	A, PA 19103						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.
10/563,998	01/09/2006		Jens Schafer		INA-P	PT163 (4223-18-US)	7047
TITLE OF INVENTIO CRANKSHAFT IN AN		ETHOD FOR DETERM TION ENGINE	MINING THE ANGLE	OF ROTATIO	N BETWI	EEN A CAMSHAFT	`AND A
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	05/11/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
WHITTINGTO	N, KENNETH	2862	324-207250				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			or agents OR, altern (2) the name of a si registered attorney of 2 registered patent a listed, no name will	of up to 3 registered patent attorneys alternatively, of a single firm (having as a member a rney or agent) and the names of up to then attorneys or agents. If no name is e will be printed.			
recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	data will appear on the T a substitute for filing (B) RESIDENCE: (CI	e patent. If an as an assignment. TY and STATE (OR COUN	TRY)	document has been filed for
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Individual Individual	Corporat	tion or other private gr	oup entity Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (F		ly any pre	viously paid issue fee	shown above)
☐ Issue Fee☐ Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.				
	# of Copies			eby authorized to	charge the	required fee(s), any de	eficiency, or credit any an extra copy of this form).
5. Change in Entity Sta	tus (from status indicates		☐ b. Applicant is no l	onger claiming S	MALL EN	TITV status See 37 C	ER 1.27(α)(2)
NOTE: The Issue Fee an	d Publication Fee (if rea		ed from anyone other tha				he assignee or other party in
				ъ.			
Typed or printed name This collection of information is required by 37 CFR 1.311. The information				-		1:1: -1: -1	
This collection of inform an application. Confiden submitting the complete this form and/or suggest: Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu 7irginia 22313-1450. DC	LEK 1.311. The informatic U.S.C. 122 and 37 CFR is USPTO. Time will vary rden, should be sent to the DOT SEND FEES OR	on is required to obtain a 1.14. This collection is y depending upon the interest of the Chief Information Of COMPLETED FORMS	or retain a benefit estimated to take dividual case. Ar ficer, U.S. Patent TO THIS ADDF	by the pub 12 minute y commen and Trader ESS. SEN	one which is to file (an is to complete, includii its on the amount of ti mark Office, U.S. Dep ID TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/563,998 01/09/2006		Jens Schafer	INA-PT163 (4223-18-US) 7047		
3624 7.	3624 7590 02/09/2009		EXAMINER		
VOLPE AND K	OENIG, P.C.	WHITTINGTO	N, KENNETH		
UNITED PLAZA,		ART UNIT	PAPER NUMBER		
30 SOUTH 17TH STREET PHILADELPHIA, PA 19103			2862		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 544 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 544 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/563,998	SCHAFER ET AL.				
Notice of Allowability	Examiner	Art Unit				
	KENNETH I WHITTINGTON	2962				
	KENNETH J. WHITTINGTON	2862				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicatio IGHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS				
1. \boxtimes This communication is responsive to <u>the Amendment filed</u>	December 12, 2008 and the teleph	one interview on February 3, 2009.				
2. ☑ The allowed claim(s) is/are <u>1-4</u> .						
3. ☑ Acknowledgment is made of a claim for foreign priority unappriority and and an important an important and an important and an important and an important	e been received.					
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •					
3. Copies of the certified copies of the priority do	cuments have been received in this	s national stage application from the				
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5.	Patent Application				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar	• •				
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. ⊠ Examiner's Amend	ate				
Paper No./Mail Date4. ☐ Examiner's Comment Regarding Requirement for Deposit		nent of Reasons for Allowance				
of Biological Material	9. ☐ Other					
/Kenneth J Whittington/						
Primary Examiner, Art Unit 2862						

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Randolph J. Huis (Reg. 34626) on February 3, 2009.

The application has been amended as follows:

Claims 5-14 have been cancelled.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: the prior art does not show or teach a triple shaft gear box as associated with the other structures in combination with the use of commutation signals that control the BLDC motor and provide angle of position of the cam shaft in the manner as recited in the claims and in combination with the other features of the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KENNETH J. WHITTINGTON whose telephone number is (571)272-2264. The examiner can normally be reached on Monday-Friday, 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Assouad can be reached on (571) 272-2210. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kenneth J Whittington/ Primary Examiner, Art Unit 2862

kjw